Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-54** **Date: 13-12-2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-54** **Date: 13-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-54** **Date: 14-12-2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-12-2018
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-54** **Date: 14-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/l)	1.41	-
5	Bulk Density(Compacted) (Kg/l)	1.47	-
6	Water Absorption(%)	0.23	-

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-54** **Date: 13-12-2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part- 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-02-21-54** **Date: 13-12-2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-2018
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-12-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-02-21-54** **Date: 13-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.45	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-02-21-54** **Date: 17-12-2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-2018
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	15-12-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.617	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-54** **Date: 31/12/2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.49 X 149.62 X 150.36	22368	8.599	421.8	18.9	18.5
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.27 X 150.95 X 150.76	22533	8.374	417.9	18.5	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.70 X 149.86 X 150.22	22584	8.264	407.2	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-54** **Date: 21/01/2019**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.54 X 149.11 X 151.01	22447	8.590	532.2	23.7	23.1
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.57 X 150.45 X 149.62	22502	8.212	501.4	22.3	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.35 X 150.45 X 150.21	22621	8.602	527.4	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-54 **Date: 31/12/2018**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14

Agency : Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023

Customer's Reference : EE/DD/WO/273/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-2018

Customer ID : Bottom Slab Drain Concrete

Sample Type /Size : 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.79 X 150.42 X 151.81	22832	8.599	426.0	18.7	18.6
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.14 X 150.12 X 151.45	22689	8.374	420.4	18.5	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.77 X 151.17 X 151.38	22641	8.264	418.9	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/01/2019

Lab ID	:	CP-2019-02-21-54
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.78 X 150.90 X 151.43	22752	8.590	532.9	23.4	23.4
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.18 X 151.21 X 150.21	22558	8.212	514.7	22.8	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.07 X 151.35 X 149.55	22714	8.602	544.5	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2018

Lab ID	:	CP-2019-02-21-54
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.91 X 149.98 X 151.21	22784	8.599	426.3	18.7	18.4
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.80 X 149.27 X 151.04	22361	8.374	408.5	18.3	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.90 X 150.71 X 150.98	22743	8.264	414.4	18.2	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig. Date. BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-54** **Date: 21/01/2019**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.14 X 151.07 X 150.54	22681	8.590	523.8	23.1	23.1
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.89 X 150.84 X 149.04	22760	8.212	520.3	22.9	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.24 X 149.42 X 151.89	22597	8.602	528.0	23.4	

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Quality Manager

CIVIL PRO Sig Date BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-54 **Date: 31/12/2018**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Impovements to Drains and Roads at Main and Cross Roads Near STP Plant BTS Layout at Bagalagunte Ward No 14
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.55 X 151.47 X 150.77	22804	8.599	418.6	18.4	18.5
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.95 X 150.39 X 150.96	22853	8.374	432.3	18.9	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.20 X 149.19 X 149.33	22408	8.264	410.3	18.3	

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CIVIL R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-54 **Date: 21/01/2019**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
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Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/273/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2018
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.48 X 151.67 X 149.67	22975	8.590	533.9	23.2	23.0
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.14 X 150.75 X 149.67	22784	8.212	502.8	22.1	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.53 X 149.81 X 151.59	22550	8.602	537.4	23.8	

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